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NOTICE OF ALLOWANCE AND FEE(S) DUE

05514

7590

06/22/2004

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 EXAMINER /

SINGH, DALZID E

ART UNIT

PAPER NUMBER

2633

DATE MAILED: 06/22/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/838 277	04/20/2001	Tetsuo Sakanaka	35 G2797	0113

TITLE OF INVENTION: OPTICAL FREE-SPACE COMMUNICATION APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	09/22/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

05514

7590

06/22/2004

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 Note: A certificate of mailing can only be used for domestic mailings of the Fec(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

Soi 10, on the take marches colon.	
(Depo	sitor's name)
	(Signature)
	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/838,277	04/20/2001	Tetsuo Sakanaka	35.G2797	9113

TITLE OF INVENTION: OPTICAL FREE-SPACE COMMUNICATION APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	5	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330		\$300	\$1630	09/22/2004
EXAMINER		ART UNIT		CLASS-SUBCLASS]	
SINGH, DALZID E		2633		398-122000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).				nting on the patent front page, up to 3 registered patent a		
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or 2			
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or cate	erories (will not be printed on the patent):	⊔individual	☐ corporation or other private group entit	ty U government
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			<u>, </u>
☐ Issue Fee	☐ A check in the am	ount of the fee(s)	is enclosed.	
☐ Publication Fee	☐ Payment by credit	card. Form PTO-	2038 is attached.	
☐ Advance Order - # of Copies	The Director is h Deposit Account Nu	ereby authorized mber	by charge the required fee(s), or credit an (enclose an extra copy of th	y overpayment, to us form).
Director for Patents is requested to apply the Issue Fed	e and Publication Fee (if any) or to re-apply	any previously p	oaid issue fee to the application identified at	ove.
(Authorized Signature)	(Date)			_
NOTE; The Issue Fee and Publication Fee (if req other than the applicant; a registered attorney or interest as shown by the records of the United States	agent; or the assignee or other party in			
This collection of information is required by 37 C obtain or retain a benefit by the public which is to application. Confidentiality is governed by 33 U.S.C estimated to take 12 minutes to complete, including completed application form to the USPTO. Time case. Any comments on the amount of time you suggestions for reducing this burden, should be see Patent and Trademark Office, U.S. Departmen 22313-1450. DO NOT SEND FEES OR COMP. SEND TO: Commissioner for Patents. Alexandria V	o file (and by the USPTO to process) an 1.122 and 37 CFR 1.14. This collection is y gathering, preparing, and submitting the will vary depending upon the individual u require to complete this form and/or nt to the Chief Information Officer, U.S. t of Commerce, Alexandria, Virginia LETED FORMS TO THIS ADDRESS.			

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09/838,277	04/20/2001	Tetsuo Sakanaka	35.G2797	9113	
05514 7590 06/22/2004			EXAMINER		
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			SINGH, D	ALZID E	
NEW YORK, N			ART UNIT	PAPER NUMBER	
			2633	· -	
			DATE MAII ED: 06/22/200	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 733 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 733 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	09/838,277	SAKANAKA, TETSUO
Notice of Allowability	Examiner	Art Unit
	Dalzid Singh	2633
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu- GHTS. This application is su	this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to 20 April 2001.		
2. X The allowed claim(s) is/are 1-6 which have been renumber	ed as 1-6 respectively.	
3. X The drawings filed on 20 April 2001 are accepted by the Ex	caminer.	
4.	been received. been received in Application cuments have been received of this communication to file ENT of this application. Itted. Note the attached EXA is reason(s) why the oath or it be submitted. It be submitted. It is application on the submitted of the	in No in this national stage application from the a reply complying with the requirements MINER'S AMENDMENT or NOTICE OF declaration is deficient. (PTO-948) attached in the Office action of a drawings in the front (not the back) of a 1.121(d). RIAL must be submitted. Note the
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0: Paper No./Mail Date 3 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Su Paper No./N 8), 7. ☐ Examiner's A	Mail Date Amendment/Comment Statement of Reasons for Allowance

Application/Control Number: 09/838,277

Art Unit: 2633

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-6 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

The present invention is allowable over prior art described in patent No.

6,347,001 to Arnold et al. The present invention is allowable because the prior art does

not specifically teach or fairly disclose free-space communication apparatus comprising:

a first light-emitting source for emitting a first transmission optical beam having a

plane of polarization in a predetermined direction, the first transmission optical beam

being modulated according to a primary signal containing communication information;

and

a second light-emitting source for emitting a second transmission optical beam having a plane of polarization perpendicular to the plane of polarization of the first transmission optical beam, the second transmission optical beam being modulated according to an auxiliary signal for angle detection.

This patentable distinction is included in independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

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3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Orino et al (US Patent No. 5,627,669) is cited to show optical transmitter receiver.

Degura (US Patent No. 5,684,614) is cited to show optical space communication apparatus.

Britz et al (US Patent No. 6,122,084) is cited to show high dynamic range freespace optical communication receiver.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalzid Singh whose telephone number is 703-306-5619. The examiner can normally be reached on Mon-Fri 8am - 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on 703-305-4729. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 12, 2004

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